

U.S. REDUCTION CO.

US EPA RECORDS CENTER REGION 5



436307

4610  
KENNEDY AVENUE

EAST CHICAGO, INDIANA  
46312

(219) 397-9000  
(312) 731-1000

ALUMINUM ALLOYS  
FOR EVERY PURPOSE

April 26, 1983

Mr. George Oliver  
Division Of Land Pollution Control  
Environmental Management Board  
1330 West Michigan Street  
P. O. Box 1964  
Indianapolis, Indiana 46206

*certified mail*  
APR 29 3 28 PM '83  
DIV. OF LAND POLLUTION CONTROL  
STATE BOARD OF HEALTH  
P 29 926571

Dear Mr. Oliver:

This letter is in response to your April 5, 1983, letter regarding "Special Waste Approval Update, Gary Development Landfill, Lake County". U. S. Reduction Co. requests approval to continue disposing of our milling dust (slag residue), a special waste by your classification, at the Gary Development Landfill. The enclosed information addresses your pertinent information questionnaire outline. I trust this meets your requirements.

If you have any questions regarding this information, please call me at (219) 392-8025.

Very truly yours,

U. S. REDUCTION CO.

*Thomas R. Hendon*  
Thomas R. Hendon, P. E.  
Environmental Director

TRH/sp

Enclosure

AN AMERICAN CAN  
COMPANY



## SPECIAL WASTE INFORMATION

COMPANY: U. S. REDUCTION CO.  
4610 KENNEDY AVENUE  
EAST CHICAGO, INDIANA 46312

CONTACT: THOMAS R. HENDON  
ENVIRONMENTAL DIRECTOR  
(219) 392-8025

### A. Characteristics and Information About Waste.

1. Physical Character: Waste is dry solid dust; -16 mesh particle size.
2. Visual Description: Waste is gray to black in color.
3. Transportation: Waste is being hauled in open top containers covered with tarps or plastic.
4. No special handling is required.
5. The waste is not pumpable (dry solid).

### B. Waste Chemical Constituent Analysis.

1. Ph- 8.5 (water added to solid).
2. Flash Pt.  $>140^{\circ}$  F (Pensky-Martens Test).
3. EP Toxicity Test Analysis (see Table 1 attached).
4. % solids 100% (no liquid).

### C. Amount of Waste and Frequency of Removal.

1. Amount: 160 to 220 cu. yds. per day. (Approximate weight per cu, yd, = 1800-2000 lbs).
2. Frequency: Daily disposal of the above (5 days/wk.)

### D. Process Description Generating Waste.

1. The waste is generated from milling of recycled secondary aluminum smelting furnace slag for concentrating aluminum metal for recovery.
2. The secondary aluminum smelting slag contains:

<u>Constituent</u>	<u>Approx. Analysis %</u>
Aluminum Metal	15
Aluminum Oxide (Incl. dust as $\text{SiO}_2$ , $\text{MgO}$ , etc.)	47
Sodium Chloride	18
Potassium Chloride	18
Other Water Insol. Ingredients	2
	<u>100</u>

**Special Waste Information**

**Page Two**

**E. Landfill Choice:**

1. Waste presently going to Gary Land Development.
2. Would like other options in Indiana. How about Munster Landfill and others? Please advise.

**F. Haulers Name and Address.**

**1. Present Hauler:**

Industrial Disposal Corp.  
2000 Gary Road  
East Chicago, Indiana 46312

2. Other firms are being considered under bids, including U. S. Reduction Co. doing its own hauling for economic reasons.

The other haulers being looked at are:

- a. Illiana Disposal Corp. - Highland, Indiana.
- b. Illiana Distribution System, Inc. - Crete, Illinois
- c. Calumet Waste System - Hammond, Indiana
- d. Chemical Services - Crestwood, Illinois

If you have knowledge of any of the above haulers not meeting compliance with regulations in Indiana, please advise.

TABLE I

## EP TOXICITY TEST ANALYSIS (TYPICAL)

U. S. REDUCTION CO.  
SLAG MILLING DUST

<u>Parameter</u>	<u>mg/l E.P.A. Extraction</u>	<u>E.P.A. Criteria</u>
Arsenic (AS)	0.03	5.0
Barium (Ba)	4.19 5.85	100.0
Cadmium (Cd)	0.66 2.03	1.0
Chromium (Cr)	0.16 1.05	5.0
Lead (Pb)	1.00 2.32	5.0
Mercury (Hg)	0.05 < 0.005 total	0.2
Selenium (Se)	0.04 0.57 total	1.0
Silver (Ag)	0.09 2.68 total	5.0

m. 4.38

Over Limit 4.38